

ABSTRACT

A flame retardant resin coating which comprises a flame retardant base resin and a transparent resin top layer. The base resin is selected from the group consisting of polyester, polyether, epoxy, polyurethane, and acrylic acrylates, melamine acrylates, and silicone (meth)acrylates and comprises color pigments and flame retardant additives. The base resin further comprises color pigments and at least one flame retardant additive ranging from about 2.5 to about 50% by weight, based on the weight of base resin. The flame retardant additive is preferably selected from the group consisting of melamine polyphosphates, melamine pyrophosphates, ammonium polyphosphates, and mixtures thereof. Furthermore, the transparent resin comprises at least one sterically hindered amine.